

CLAIMS

What is claimed is:

- 1 ~~1.~~ Apparatus for in-vehicle provision of audio content
2 to a listener, comprising:
3 a cellular telephone adapted to receive broadcast
4 radio content over a wireless network; and
5 an in-vehicle audio system, adapted to be fixedly
6 installed in a vehicle, and coupled to receive the
7 broadcast radio content from the cellular telephone, and
8 to play the content in the vehicle.
- 1 2. Apparatus according to claim 1 wherein the cellular
2 telephone is adapted to receive the broadcast radio
3 content over the wireless network at a time when the radio
4 content is not being broadcast over radio channels.
- 1 3. Apparatus according to claim 1 wherein the cellular
2 telephone is adapted to receive the broadcast radio
3 content over the wireless network at a location where the
4 radio content cannot be received over radio channels.
- 1 4. Apparatus according to claim 1 wherein the broadcast
2 radio content received over the wireless network is
3 user-selected.
- 1 5. Apparatus according to claim 4 wherein the cellular
2 telephone is adapted to receive from a user, an input
3 comprising at least one detail regarding the broadcast
4 radio content to be received, and to transmit the at least
5 one detail to a content provider over the wireless
6 network.

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1 14. Apparatus according to claim 13 wherein the wireless
2 network is a GSM network and the packet-oriented cellular
3 protocol is General Packet Radio Service (GPRS).

1 15. Apparatus according to claim 1 wherein the cellular
2 telephone is adapted to transfer the audio content to the
3 in-vehicle audio system via a wireless link therebetween.

1 16. Apparatus according to claim 13 wherein the wireless
2 link uses a Bluetooth communication protocol.

1 17. Apparatus according to claim 1 wherein the cellular
2 telephone is adapted to transfer the audio content to the
3 in-vehicle audio system via a wired link therebetween.

1 ~~18.~~ Apparatus for storing user radio station
2 preferences, comprising:

3 a cellular telephone, having a memory; and
4 an in-vehicle audio system, adapted to be fixedly
5 installed in a vehicle and to play broadcast radio content
6 therein, and adapted to receive, from a user, at least one
7 identification detail regarding a radio station preferred
8 by the user, and to transmit the at least one detail to
9 the cellular telephone for storage in the memory.

1 19. Apparatus according to claim 18 wherein the cellular
2 telephone is adapted to transmit the at least one detail
3 of the preferred radio station to another in-vehicle audio
4 system.

1 20. Apparatus according to claim 19 wherein the other
2 in-vehicle audio system is adapted to receive the at least
3 one detail from the cellular telephone and, responsive

4 thereto, to receive and play broadcast radio content from
5 the preferred radio station.

1 21. Apparatus according to claim 18 wherein the cellular
2 telephone is adapted to receive broadcast radio content
3 from the preferred radio station over a wireless network,
4 and

5 the other in-vehicle audio system is coupled to
6 receive the broadcast radio content from the cellular
7 telephone, and to play the content in the vehicle.

1 22. Apparatus according to claim 18 wherein the at least
2 one identification detail comprises at least one detail
3 selected from the group consisting of radio station name,
4 radio station ID code, radio station broadcast frequency,
5 and radio station URL.

1 ~~23.~~ A method for the in-vehicle provision of audio
2 content to a listener, the method comprising:

3 downloading broadcast radio content over a wireless
4 network to a cellular telephone;

5 transferring the content from the cellular telephone
6 to an in-vehicle audio system; and

7 playing the content on the in-vehicle audio system
8 to the listener.

1 24. A method according to claim 23 wherein the step of
2 downloading content over the wireless network is performed
3 at a time when the content is not being broadcast over
4 radio channels.

1 25. A method according to claim 23 wherein the step of
2 downloading content over the wireless network is performed

3 at a location where the content can not be received over
4 radio channels.

1 26. A method according to claim 23 and also comprising
2 the step of selecting the content to be downloaded.

1 27. A method according to claim 26 wherein the selecting
2 step comprises a user inputting at least one detail
3 regarding the broadcast radio content to be downloaded,
4 and transmitting the at least one detail to a content
5 provider over the wireless network.

1 28. A method according to claim 27 wherein the at least
2 one detail is input to the cellular telephone.

1 29. A method according to claim 28 wherein the at least
2 one detail is input to the cellular telephone verbally.

1 30. A method according to claim 27 wherein the cellular
2 telephone comprises input buttons, and wherein the at
3 least one detail is input to the cellular telephone
4 through contact with the buttons.

1 31. A method according to claim 27 wherein the at least
2 one detail is input via the audio system.

1 32. A method according to claim 31 wherein the audio
2 system functions as a radio independent of the cellular
3 phone, and the at least one detail comprises at least one
4 identification detail of the radio station to which the
5 radio is tuned.

1 33. A method according to claim 32 wherein the at least
2 one detail is stored in a memory in the cellular
3 telephone.

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1 34. A method according to claim 23 wherein the wireless
2 network is the Internet and the cellular telephone is WAP
3 enabled.

1 35. A method according to claim 23 wherein the cellular
2 telephone communicates with the wireless network using a
3 packet-oriented cellular protocol.

1 36. A method according to claim 35 wherein the wireless
2 network is a GSM network and the packet-oriented cellular
3 protocol is GPRS.

1 37. A method according to claim 23 wherein the content
2 is transferred from the cellular telephone to the audio
3 system via a wireless link therebetween.

1 38. A method according to claim 37 wherein the wireless
2 link uses a Bluetooth communication protocol.

1 39. A method according to claim 23 wherein the content
2 is transferred from the cellular telephone to the audio
3 system via a wired link therebetween.

1 ~~40~~. A method for storing a user's radio station
2 preferences, comprising:

3 inputting at least one identification detail
4 regarding a radio station preferred by a user to an
5 in-vehicle audio system;

6 transmitting the at least one identification detail
7 to a cellular telephone; and

8 storing the at least one detail in a memory in the
9 cellular telephone.

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1 41. A method according to claim 40, and also comprising
2 transmitting the stored at least one identification detail
3 to another in-vehicle audio system.

1 42. A method according to claim 41, and also comprising
2 identifying the preferred radio station from the at least
3 one detail, and responsive thereto, receiving and playing
4 broadcast radio content from the preferred radio station.

1 43. A method according to claim 40, and also comprising:
2 transmitting the stored at least one identification
3 detail, over a wireless network, to an audio content
4 provider;

5 identifying the preferred radio station from the at
6 least one detail;

7 downloading broadcast radio content over the
8 wireless network to the cellular telephone;

9 transferring the content from the cellular telephone
10 to the in-vehicle audio system; and

11 playing the content on the in-vehicle audio system
12 to a listener.

1 44. A method according to claim 40 wherein the at least
2 one identification detail is selected from the group
3 consisting of radio station name, radio station ID code,
4 radio station broadcast frequency, and radio station URL.